

US v. FOX, et al – 1:20-CR-183-RJJ

ATTACHMENT – CURRICULUM VITAE

- 1) Kelly Van Arsdale, Forensic Examiner FBI
- 2) Robert Gillette, Forensic Chemist FBI
- 3) Michael Jacobs, Special Agent ATF
- 4) Michael Yauk, Senior Forensic Examiner FBI

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Kelly A. Van Arsdale

Federal Bureau of Investigation
2501 Investigation Parkway
Quantico, Virginia 22135
(703) 632-8459

PROFESSIONAL EXPERIENCE

- Mar 2013 - Present **Supervisory Special Agent Bomb Technician / Explosives and Hazardous Devices Examiner**
Federal Bureau of Investigation
FBI Laboratory
Quantico, Virginia
- Perform forensic examinations on evidence submitted to the Explosives Unit in the areas of explosives and hazardous devices in criminal investigations in order to identify bomb components and reconstruct explosive devices. Serve as an advisor to FBI Evidence Response Teams at bombing crime scenes for the purpose of collection and preservation of physical evidence. Provide written reports and expert testimony regarding results of explosives and hazardous device analyses. Conduct research and testing of explosives and explosive devices. Primary instructor for FBI Post Blast Investigator Schools. Examiner status – currently in training.
- Dec 2007 – Mar 2013 **Special Agent Bomb Technician**
Federal Bureau of Investigation
Washington Field Office
Washington, DC
- Respond to investigations and calls for service regarding Improvised Explosive Devices (IEDs) and conduct operational Render Safe Procedures (RSP) in conjunction with local, county, and state bomb squads. Collect and maintain evidentiary items in support of bombing investigations as appropriate, forwarding evidence to FBI Explosives Unit for forensic exploitation. Conduct IED RSP and Post Blast Investigator training for local, state, and county bomb squads and evidence response team personnel. Provide training to explosives detection canine teams.
- Dec 2004 – Dec 2007 **Hazardous Materials Response Team**
Federal Bureau of Investigation
Washington Field Office
Washington, DC
- Respond to criminal incidents involving potential hazardous materials or weapons of mass destruction events. Conduct initial assessments of nuclear, biological, chemical, and radiological threats or scenes. Document, preserve, and collect

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evidence in a hazardous environment and/or potential hazardous materials crime scene, and transport the evidence if necessary to specialized laboratories for exploitation.

Dec 2009 – Mar 2013

Special Agent

Federal Bureau of Investigation
Washington Field Office - Criminal Division
Washington, DC

Investigate criminal cases involving organizations and individuals defrauding health care insurance programs. Conduct large scale prescription drug investigations targeting physicians and criminal enterprises engaged in illegal prescription drug acquisition and distribution. Conduct major provider drug initiatives targeting companies, corporations, hospitals, and large provider groups who devise health care fraud schemes. Managed case investigations by serving search warrants, collecting evidence, conducting interviews, and effecting arrests.

Mar 2003 – Dec 2009

Special Agent

Federal Bureau of Investigation
Washington Field Office – Counterterrorism Division

Member of the Amerithrax Task Force investigating the 2001 anthrax attacks. Work with scientists to employ advanced scientific methodologies to exploit forensic evidence. Perform extensive evidence review. Conduct interviews, execute warrants, and collect evidence in support of large-scale bio-terrorism investigation. Prepare detailed case report summaries.

July 1999 – Mar 2003

Physical Science Technician

Federal Bureau of Investigation
FBI Laboratory – Explosives Unit
Washington, DC

Provide assistance to Explosives and Hazardous Device Examiners by conducting technical exams on explosive-related cases. Receive and deliver evidence to/from other laboratory forensic disciplines, ensuring proper chain of custody. Inventory and photograph evidence and prepare detailed laboratory notes. Utilize scientific equipment and technical tools to conduct standard examinations. Assist supervisor in crime scene processing, IED construction, and device analysis. Provide instruction and guidance during explosive range demonstrations, presentations, and tours. Liaison with outside agencies and field offices pertaining to examinations and submittal of evidence.

July 1997 – July 1999

Physical Science Technician

Federal Bureau of Investigation
FBI Laboratory – Trace Evidence Unit
Washington, DC

Process evidence in the Trace Evidence Unit and perform examinations for hairs, fibers, rope/cordage, and fabric. Conduct collection and preservation techniques. Maintain and record accurate and detailed laboratory notes.

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EDUCATION

Sep 1993 – May 1997 **Michigan Technological University**
Houghton, Michigan
Bachelor of Science Degree
Major: Clinical Laboratory Science

PROFESSIONAL TRAINING

06/2021	U.S. Marine Corps Officer-In-Charge/Range Safety Officer Training & Re-Certification
10/2020	Hazardous Devices School Bomb Technician Re-Certification
06/2018	U.S. Marine Corps Range Safety Officer Training & Re-Certification
05/2017	Hazardous Devices School Bomb Technician Re-Certification
02/2017	U.S. Department of Energy Radiological Worker II
05/2016	FBI Instructional Strategies Course
04/2016	Tour of Austin Powder Company, McArthur, Ohio
01/2016	High Voltage Firing Systems Course - AT Solutions
03/2015	U.S. Marine Corps Range Safety Officer Training & Re-Certification
02/2015	FBI Presentation Skills Course
10/2014	The Blast Effects Computer and Technical Paper 17
01/2014	Hazardous Devices School Bomb Technician Re-Certification
05/2012	U.S. Marine Corps Range Safety Officer Training & Re-Certification
07/2011	A-T Solutions Improvised Explosive Device (IED) Advance Electronics
07/2013	FBI National Improvised Explosives Familiarization
01/2011	Hazardous Device School Bomb Technician Re-Certification
07/2010	Ahura First Defender Instrument Interpretation
12/2009	Explosives Ordnance Disposal Electronics Design and Defeat – WMD Tech
04/2009	FBI Post Blast Investigators – Instructor Development Course
03/2009	Army Battlefield Forensics – Biometric Intelligence Project Training
12/2008	FBI Hazardous Devices Response Unit Counter Terrorism IED Hand Entry Training

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12/2007	Hazardous Devices School Bomb Technicians Robotics Course
12/2007	Hazardous Devices School: Bomb Technician Certification
08/2007	A-T Solutions IED Electronics
03/2007	FBI Chemistry of Hazardous Materials
02/2007	WMD Emergency Responder Hazardous Materials Technician Course – HazMat Emergency Responder Certification
09/2006	FBI Radiological Crime Scene Investigations Course/Radiological Worker II
02/2005	FBI Weapons of Mass Destruction Crime Scene Course
02/2005	FBI Hazardous Materials Operational Response Course
07/2003	FBI New Agent Training
05/2001	FBI Evidence Response Team Basic Training
07/2000	Chemistry of Pyrotechnics and Explosives
06/2000	U.S. Naval Explosive Ordnance Disposal School – Basic Demolition Course
01/2000	Hazardous Devices School Explosives Handlers Course
12/1999	Structural Aspects of Bombing Investigations
11/1999	FBI/OSHA Hazardous Materials Operations Course
11/1999	FBI Explosives Handlers Certification/Explosives Proficiency Validation
08/1999	FBI Post Blast Investigators School
06/1998	U.S. Department of Transportation – Transportation Safety Institute Air Transportation of Hazardous Materials Course

PROFESSIONAL AFFILIATIONS

2003 - Present	FBI Agents Association
2008 - 2012	International Association of Bomb Technicians and Investigators

INSTRUCTOR TRAINING CERTIFICATIONS

06/2016	Adjunct Faculty Member – Laboratory Specialty; Post Blast Investigations; Explosive, IED & X-Ray Training & Interpretation
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COURSES/SCHOOLS AS INSTRUCTOR

2016 - Present FBI Post Blast Investigators School – Domestic

2013 – Present IED Familiarization & X-Ray Interpretation

2008 – Present Assistant Instructor for FBI Post Blast Investigator Schools – Domestic and International

2020 – Present Lead Instructor for FBI Explosives Awareness & IED Familiarization Course for K9 Handlers

FORENSIC CASEWORK EXPERIENCE

09/2016	NEWARK / NEW YORK IED ATTACKS – Technical Assistance: Examined evidence and prepared detailed notes. Conducted render safe procedures on intact IEDs.
04/2013	BOSTON MARATHON BOMBING – Technical Assistance: Inventoried, examined, and photographed evidence. Prepared detailed notes pages.
02/2002:	SHOEBOM (ATTEMPTED AIRLINE BOMBING) – Technical Assistance: Inventoried, examined, and photographed evidence. Coordinated forensic examinations with other disciplines in the Laboratory. Prepared detailed notes pages in support of explosives and hazardous device report.
09/2001	PENTTBOM (SEPTEMBER 11TH ATTACKS) – Technical Assistance: Inventoried, examined, and photographed evidence. Coordinated forensic examinations with other disciplines in the Laboratory.
10/2000	ADENBOM (BOMBING OF THE USS COLE) – Technical Assistance: Inventoried, examined, and photographed evidence. Coordinated forensic examinations with other disciplines in the Laboratory.
12/1999	MILLENNIUM BOMBER (ATTEMPTED NEW YEARS EVE ATTACKS) – Technical Assistance: Inventoried, examined, and photographed evidence. Prepared detailed notes pages. Coordinated forensic examinations with other disciplines in the Laboratory
04/2013	BOSTON MARATHON BOMBING – Technical Assistance: Inventoried and examined evidence. Prepared detailed notes pages and coordinated forensic exams with othe disciplines.

Crime Scene / Field Office Investigation and Support:

03/2018	HOUSTON, TX – Operational Support: Provided guidance in the search and collection of explosives precursors and possible bomb-related components.
03/2007	AMERITHRAX (2001 ANTHRAX LETTER ATTACKS) – Operational Support: Conducted hazmat search in biosafety level containment suite.
07/2005	STOLEN VEHICLES (POTI, GEORGIA) – Overseas Operational Support: Traveled to Poti, Georgia. Processed approximately 12 vehicles recovered from a cargo vessel for

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latent fingerprints. Searched vehicles for hidden contraband and other evidence of related criminal activities.

- 07/2005 ASSASSINATION ATTEMPT (TBILISI, GEORGIA) – Overseas Technical Assistance: Traveled to Tbilisi, Georgia. Conducted search of residence and storage areas of subject involved in the attempted assassination of President Bush. Collected, sampled, and removed hazardous chemicals and materials from the premise.
- 01/2003 AMERITHRAX – Operational Support: Provided coordination and support for human scent evidence team canine searches of properties and rural areas in Maryland.
- 11/2002 AMERITHRAX – Operational Support: Provided organization, planning and support for large scale crime scene and canine searches of properties in Maryland.
- 10/2002 SNIPEMUR (DC SNIPER ATTACKS) – Operational Support: Provided logistical support and coordination for human scent evidence canine teams. Conducted search operations following the string of shootings in the DC metropolitan area.
- 07/2002 AMERITHRAX – Operational Support: Traveled to Louisiana to support human scent evidence canine teams in searches of buildings and properties in and around Baton Rouge, Louisiana.
- 02/2002 SHOEBOM – Technical Assistance: Traveled to Seattle, Washington to conduct examination and analysis of aircraft material structure at Boeing manufacturing plant.
- 09/2001 PENTTBOM –Operational Support: Responded to the Pentagon to provide crime scene search and evidence recovery.
- 02/2001 MILLENIUM BOMBER – Technial Assistance: Traveled to Los Angeles, California to provide assistance with evidence for witness prep and trial of Ahmed Ressam
- 12/2000 ADENBOM – Technical Assistance: Traveled to Pascagula, Mississippi to conduct evidence recovery operations on the USS Cole.

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Robert W. Gillette

Federal Bureau of Investigation
Laboratory Division
Explosives Unit
2501 Investigation Parkway
Quantico, VA 22135

Phone: (703) 632-7652 Email: rwgillette@fbi.gov

PROFESSIONAL EXPERIENCE

DEC 2012 - Present **Chemist - Forensic Examiner**

Explosives Unit
FBI Laboratory
Federal Bureau of Investigation
Quantico, VA

Performed forensic examinations on evidence submitted to the Explosives Unit for the presence explosives. Wrote reports regarding results of the analyses and as necessary provided testimony regarding the results of the examinations. Managed the proficiency testing program for the unit.

JUN 2009 – DEC 2012 **Chemist**

Explosives Unit and Forensic Operations Unit
FBI Laboratory
Federal Bureau of Investigation (April 2012 - Dec 2012)
Oak Ridge Associated Universities (June 2009 - April 2012)
Quantico, VA

Performed forensic examinations on evidence submitted to the Explosives Unit and the Forensic Operations Unit for the presence explosives.

JUL 2007 – MAY 2009 **Associate Chemist**

OCNUS Laboratory Support
Special Programs Division
Midwest Research Institute
Kansas City, MO

Performed development and validation of an ion chromatography/mass spectrometry (IC/MS) procedure for the analysis of explosives and unknown samples. Prepared and analyzed samples using IC/MS.

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JUN 2000 – NOV 2005 **Visiting Scientist**

Counterterrorism and Forensic Science Research Unit
FBI Laboratory
Federal Bureau of Investigation
Quantico, VA

Performed forensic science research for the development and validation of various analytical methods. The techniques developed included IC/MS, liquid chromatography/mass spectrometry, and capillary electrophoresis. Prepared and analyzed various samples including explosives, food, and biologicals.

PROFESSIONAL MEMBERSHIPS

MAY 2019 – Present

Steering Committee - International Advisor

Forensic International Network for Explosives Investigation (FINEX)
European Network of Forensic Science Institutes (ENFSI)

Represented the FBI as a member on the steering committee for the expert working group on explosives (FINEX) of the ENFSI. Worked together with international experts through exchanges of technical information with the goal of improving and advancing the field of forensic explosives investigations.

EDUCATION

JAN 2007

George Mason University

Fairfax, Virginia
Master of Science Degree (Thesis)
Major: Chemistry

MAY 2001

George Mason University

Fairfax, Virginia
Bachelor of Science Degree
Major: Chemistry

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TRAINING/CONFERENCES/MEETINGS

2021	FINEX Ask an Expert Session, (Virtual)
2021	<i>National Improvised Explosive Familiarization</i> , FBI (Florence, AL)
2020	FINEX Ask an Expert Session, (Virtual)
2019	FINEX Conference (Cergy-Pontoise, France)
2018	<i>National Improvised Explosive Familiarization</i> , FBI (Huntsville, AL)
2017	12 th International Symposium on the Analysis and Detection of Explosives (Oxford, England)
2016	TSL Explosives Detection Training Workshop (Atlantic City International Airport, NJ)
2015	IED Updates and Trends Workshop (Cagayan de Oro City, Mindinao, Philippines)
2015	ATF laboratory tour and meeting (Ammendale, MD)
2015	CTTSO Explosives Detection Technology Demonstration (Tysons, VA)
2014	MP Associates pyrotechnic production facility tour (Ione, CA)
2013	<i>WMD Crime Scene Operations Course</i> , FBI Laboratory (Quantico, VA)
2013	<i>Hazardous Materials Operations Course</i> , FBI Laboratory (Quantico, VA)
2013	<i>Laboratory Analysis of Fire Debris Evidence</i> , FBI Laboratory Explosives Unit (Quantico, VA)
2012	<i>LTQ Operations Course</i> , Thermo Fisher Scientific (West Palm Beach, FL)
2012	<i>National Improvised Explosive Familiarization</i> , FBI (Cedar Rapids, IA)
2011	<i>First Defender RM</i> , Thermo Fisher Scientific (Quantico, VA)
2011	<i>The Chemistry of Pyrotechnics & Explosives</i> , Washington College (Chestertown, MD)
2011	<i>Explosives Analysis</i> , FBI Laboratory Explosives Unit (Quantico, VA)
2010	<i>FTIR/Raman/NIR</i> , Thermo Scientific (Richmond, VA)
2010	<i>FTIR</i> , Thermo Scientific (Madison, WI)
2010	<i>Explosives Engineering</i> , Paul W. Cooper, Instructor (Fredericksburg, VA)
2010	<i>Scanning Electron Microscopy</i> , College of Microscopy (Westmont, IL)
2010	<i>Fundamentals of X-ray Powder Diffraction</i> , ICDD (Newtown Square, PA)
2009	<i>Large Vehicle Bomb Post Blast Investigator School</i> , FBI (Concord, NH)
2009	<i>LC Operations</i> , Agilent (Overland Park, KS)

EXPERT TESTIMONY

FEB 2019	Courtroom Testimony The People of the State of California vs. Saleh Ali Superior Court of the State of California, County of Orange Discipline – Explosives Chemistry
NOV 2018	Courtroom Testimony United States of America vs. Akayed Ullah United States District Court, Southern District of New York Discipline – Explosives Chemistry
OCT 2018	Courtroom Testimony The People of the State of California vs. Jeffrey Enslow Superior Court of the State of California, County of Kern Discipline – Explosives Chemistry

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PRESENTATIONS

Ongoing	<i>Improvised Explosives Awareness</i> , DEA Clandestine Laboratory Classes (Quantico, VA)
2021	<i>Explosives Field Detection</i> , National Improvised Explosive Familiarization (Seattle, WA)
2021	<i>Improvised Explosives and Explosives Precursors</i> , Explosives Awareness and IED Familiarization Course for K9 Handlers. Quantico, VA
2021	<i>Explosives Field Detection</i> , National Improvised Explosive Familiarization (Florence, AL)
2020	<i>An Introduction to Improvised Explosives</i> . Improvised Explosives and Explosive Devices Training, Stafford County Sheriff's Office. Quantico, VA.
2019	<i>Improvised Explosives</i> . Improvised Explosives Training, International Association of Bomb Technicians and Investigators. Fort Wayne, IN.
2019	<i>Improvised Explosives Investigation</i> . 2019 FINEX Conference. Cergy-Pontoise, France
2018	<i>Explosives Field Detection</i> , National Improvised Explosive Familiarization (Huntsville, AL)
2017	<i>Implementing IC-MS at the FBI Laboratory</i> . 12 th International Symposium on the Analysis and Detection of Explosives. Oxford, England.
2017	<i>The Improvised Explosive Threat</i> . Advanced Post Blast Investigation Course. Jaegerspris, Denmark.
2016	<i>Explosives Field Detection</i> . Bomb Scene Management and Homemade Explosives Course. Nairobi, Kenya.
2015	<i>Explosives Chemistry in Post Blast Investigations</i> . Philippine Bomb Data Center. Camp Crame, Quezon City, Philippines.
2015	<i>Collection and Preservation of Explosives from Post Blast Scenes</i> . IED Updates and Trends Workshop 2015. Cagayan de Oro City, Mindinao, Philippines.
2006	<i>Analysis of Explosives and Explosive Residue by Ion Chromatography/Mass Spectrometry</i> . George Mason University. Fairfax, VA.
2005	<i>Analysis of Explosives and Explosive Residue by Ion Chromatography/Mass Spectrometry</i> . FBI Laboratory Counterterrorism and Forensic Science Research Unit. Quantico, VA.
2002	<i>Analysis of Anions in Food and Biological Samples by Capillary Electrophoresis (Poster)</i> . American Chemical Society Middle Atlantic Regional Meeting. Fairfax, VA.
2001	<i>Analysis of Anions using Capillary Electrophoresis</i> . FBI Laboratory Chemistry Unit. Washington D.C.

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PROFESSIONAL OPERATIONS

JUL 2019	North Carolina: Improvised Explosives Investigation
JUN 2018	Pennsylvania: Improvised Explosives Investigation
MAR 2018	Texas: Improvised Explosives Investigation
SEP 2016	New Mexico: Improvised Explosives Investigation
APR 2014	Bermuda: Explosives Residue Investigation

PUBLICATIONS

R. Gillette, J.M. Doyle, M.L. Miller, M.A. Montgomery, G.W. Mushrush. Capillary electrophoresis screening of poisonous anions extracted from biological samples. *Journal of Chromatography B*, Volume 831, Issues 1-2, 2 February 2006, Pages 190-195.

M.L. Miller, J.M. Doyle, R.A. Lee, R. Gillette. Analysis of Anions by Capillary Electrophoresis and Ion Chromatography for Forensic Applications. *Forensic Science Communications*. 2 (2001).

STATEMENT OF QUALIFICATIONS

Michael H. Jacobs
Special Agent
Bureau of Alcohol, Tobacco, Firearms and Explosives
Detroit, Michigan

I, Michael Hussain Jacobs hereby declare and state:

1. That I am employed with Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) as a Special Agent (SA) and have served in that capacity since March 2016. I am currently assigned to the Detroit Field Division Group IV as well as the FBI Detroit Violent Crimes Task Force.
2. As a Special Agent with ATF, one of my responsibilities is conducting criminal investigations into alleged violations of the Federal firearms laws. I have acquired knowledge and experience as to firearms, ammunition, and the interstate nexus of firearms and ammunition, due to investigations, research, records, familiarity, conferring with other experts, training, teaching, and certifications. I prepare reports and official correspondence relating to the identification, origin, and classification of firearms and ammunition under the provisions of the Federal firearms laws.
3. Prior to being employed by the ATF, I was employed as a police officer in Detroit, Michigan at the Wayne State University Police Department for approximately eight years from 2008 to 2016. During my time as a Wayne State University Police Officer, I was assigned as a Task Force Officer (TFO) with the Detroit Federal Bureau of Investigation (FBI) Violent Crimes/Violent Gangs Task Force for approximately four years.
4. That during the course of my duties, I have examined hundreds of firearms and rounds of ammunition for the purpose of determining the manufacturer, model, caliber/gauge, and serial number; the place of manufacturer; function and design, and/or status as related to the National Firearms Act and the Gun Control Act.
5. That I have contacted the ATF National Tracing Center on numerous occasions and requested firearms traces concerning the manufacture and interstate/intrastate shipment of firearms. I have also assisted numerous Federal, state and local law enforcement agencies with firearm traces.
6. I earned my Bachelor of Science degree in Criminal Justice from Wayne State University in Detroit, Michigan in December of 2007.
7. I graduated from and received basic Police Officer training from the Wayne County Regional Police Academy at Schoolcraft College in Garden City, Michigan in May of 2008.

8. I received Federal Law Enforcement Training by attending Criminal Investigator Training Program and the ATF Special Agent Basic Training in the Federal Law Enforcement Training Center (FLETC) in Glynco, Georgia, in 2016.
9. I completed the Rifle Instructor/ Sub Machine Gun Instructor Course at The Macomb Police Academy in Clinton Township, Michigan.
10. In 2019, I attended the ATF Interstate Nexus training in Glynco, Georgia and the Advanced Interstate Nexus Training at various locations around the New England region of the United States.
11. That I have received formal training for law enforcement personnel in both a general and specific nature as it pertains to the recognition and identification of firearms and ammunition and their place of manufacture. This training includes, but is not limited to the following:

Criminal Investigator School, Federal Law Enforcement Training Center, Glynco, Georgia
Special Agent Basic Training, ATF National Academy, Glynco, Georgia
Firearms Interstate Nexus Training, ATF National Academy. Glynco, Georgia.
Advanced Interstate Nexus Training, New England, USA.

During the Interstate Nexus Training in Glynco, Georgia, I personally toured the following firearms manufacturing plant:

Daniel Defense Systems firearms manufacturing plant.

During the Advanced Interstate Nexus Training in New England, I personally toured the following firearms manufacturing plants:

Sturm, Ruger & Company
Sig Sauer
Smith & Wesson
Smith and Wesson Precision Plastics
Kahr Arms Manufacturing Company
Colt's Manufacturing Company

I also toured the Springfield Armory national Historic Site, Springfield, Massachusetts where I examined over 100 firearms in the firearm's library.

12. That I maintain current information regarding a historical list of licensed U.S. and foreign manufacturers, importers, and distributors, as well as common firearms proof marks utilized by numerous foreign countries.

13. That my expertise relative to the various disciplines of firearms and ammunition to include interstate nexus has been requested and recognized by the following agencies:

Bureau of Alcohol, Tobacco, Firearms and Explosives
Federal Bureau of Investigation
United States Attorney's Office for the Eastern Judicial District of Michigan

14. That for over 20 years I have had a personal interest in the history, collection, nomenclature, and sporting and professional use of firearms and ammunition. I have also accumulated a personal reference library of firearms and ammunition related publications such as *Gun Trader's Guide*, *Gun Digest*, *Blue Book of Antique Firearms and Values*, *Standard Catalog of Firearms*, *Standard Catalog of Smith and Wesson*, *Ammo Encyclopedia*, *Guns and Ammo Magazine*, and *Blue Book of Gun Values*, in order to remain familiar with firearms and firearm trends.

Michael H Jacobs
Special Agent
Bureau of Alcohol, Tobacco, Firearms and Explosives

Michael Yauk
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Curriculum Vitae of Michael Yauk

PROFESSIONAL EXPERIENCE

2015-Present

Information Technology Specialist - Senior Forensic Examiner

Federal Bureau of Investigation

Computer Analysis Response Team (CART)

Serves as Senior Forensic Examiner responsible for planning, coordinating and directing digital forensic science activities. Experienced in advanced information technology (IT) projects requiring complex and difficult forensic examinations of computer, digital, and similar media and equipment using a wide range of IT knowledge. Experienced in evidentiary techniques resulting in the acquisition, examination, and presentation of computer-related evidence for investigative purposes. Performs technical analyses of evidence in all types of difficult and complex cases. Prepares and furnishes authoritative oral and written reports which convey opinions and findings and presents necessary court testimony. Identifies, diagnoses, and corrects errors and problems. Provides technical guidance and assistance to others involved in the investigation to ensure precautions are taken to prevent data and equipment damage. Serves as technical consultant and provides training in computer examinations and techniques to Agents, federal, state, and local law enforcement agencies.

Additional qualifications include such advanced authorizations as Macintosh, Mobile, and JTAG/ISP authorized Examiner. Accepted and currently enrolled in the Forensic Audio, Video, and Image Analysis Unit training program in 2018. Serves as primary purchase card holder for the Detroit Office. Instructional responsibilities include ImageScan, DriveQuest, and Case Agent Investigative Review (CAIR) training programs. Developed curriculum as primary instructor for "File System Forensics;" a 40-hour training course, required as part of the training curriculum for new examiners, focusing on the New Technology File System (NTFS) and File Allocation Table (FAT) file systems. This course is required as part of the CART training curriculum for new examiners. Converted course to multimedia lecture available as a distance learning training program in 2018.

2010-2015

Information Technology Specialist - Forensic Examiner

Federal Bureau of Investigation

Computer Analysis Response Team (CART)

2007-2010, 2014-2016

Adjunct Professor

Eastern Michigan University

School of Technology Studies - Information Assurance

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Provided all development and Instruction for the following:

IA 327/558 - Computer Forensics I - *Introduction to Digital Forensics*

Computer Forensics I addresses the comprehension and application of Computer Forensic Investigations. Students will evaluate and synthesize technical and legal issues in relation to digital evidence. Students will apply various skills and techniques, combined with numerous investigative software tools to analyze seized electronic media.

IA 328/428/559 - Computer Forensics II - *Intermediate Digital Forensics*

This advanced course addresses the comprehension and application of Digital Forensic Investigations. Students will evaluate and synthesize technical and legal issues in relation to digital evidence. Students will apply various skills and techniques, combined with numerous investigative software tools to analyze seized electronic media. This class will continue to build upon computer forensics fundamentals, and introduces the NTFS file system and system artifacts such as internet history, user preferences, the registry, link files, etc.

IA 329/559 - Computer Forensics III - *Enterprise Digital Forensics*

As certifications become a legal requirement in the field of Digital Forensics, Digital Forensics III will continue to build upon the previous two forensic courses and will provide the knowledge and skills necessary to install, configure and effectively use Forensic Toolkit (FTK), FTK Imager, Password Recovery Toolkit (PRTK), and Registry Viewer. Students will also use AccessData products to conduct forensic investigations on Microsoft® Windows® systems, learning where and how to locate Windows system artifacts. Upon completion of the course, all students will take the ACE certification test.

IA 103 - *Introduction to Information Assurance*

A study of security in both the voice and data networks and an examination of the security issues associated with the movement toward a convergence of the two infrastructures. Topics to be covered include voice and data network connectivity, modem security, VOIP security, wireless security, cryptography, intrusion detection systems, voice and data firewalls, malicious software, information operations and warfare, and denial of service attacks.

2003-2010

Program Associate, Information Assurance

Lead Instructor/Curriculum Developer

Eastern Michigan University

Center for Regional and National Security (CeRNS)

Facilitator to Schools of Cyber-Crime, Digital Forensics, and Linux for Law Enforcement courses including research, content development, administrative expertise, and instruction within the 520 classroom hours of the three different state grant funded programs. Continually worked to redesign and develop Schools of Cybercrime and Forensics. Responsible for budgeting, contractor management, and financial compliance within each grant.

Michael Yauk
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Developed and taught an average of 200 contact hours per year from 2003 until 2010.
Topics Included: Internet Artifact Analysis, First Response to Electronic Crime, ImageScan & Forensic Preview, External Media (CD/DVD & Digital media), Validation of Hardware and Software, Forensic Tools for Image Analysis, Policy and Procedure Development, Building the Forensic Workstation, Introduction to Computer Forensics, Password Recovery, Network Investigation Fundamentals, Ethical Penetration Testing, Wireless Vulnerability Testing, Introduction to Cyber Crime Investigations, Volatile Evidence Collection.

OTHER INSTRUCTIONAL EXPERIENCE

(Course Title, Number of Days)

2010-Present

Information Technology Specialist- Forensic Examiner

Federal Bureau of Investigation

Computer Analysis Response Team (CART)

File Systems. (5)

ImageScan. v3.X. (1)

Case Agent Investigative Review (CAIR). (1)

DriveQuest. (1)

2009-2010

Contractual Instructor

ADF Solutions

Digital First Responder (DFR) course – Levels 1 and 2

OTHER PROFESSIONAL PRESENTATIONS

Introduction to Digital Forensic Science

Cheryl Stockwell Academy District, CSPA Middle School, November 2016

Digital Forensics

CRJ 475 Digital Evidence, University of Michigan, Scott Macek, April 2014

Introduction to Digital Forensics Investigations

Warren Consolidated Schools, Career Preparation Center, 2008, 2007

Introduction to Digital Forensics Investigations

Eastern Michigan University, Information Assurance, Guest Lecturer, 2008

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Introduction to Digital Forensics Investigations

Michigan Association of Government Computer Users, Annual Conference, 2006

Introduction to Electronic Crime and Computer Forensics

GILMA WALA, 2005

CERTIFICATIONS and AUTHORIZATIONS

- 2016 *Computer Analysis Response Team (CART) JTAG/ISP Authorized Examiner.* Federal Bureau of Investigation (FBI)
- 2016 *Certified BlackLight Examiner (CBE) - Recertification.* Blackbag Technologies
- 2015 *Computer Analysis Response Team (CART) Senior Examiner.* Federal Bureau of Investigation (FBI)
- 2015 *Certified BlackLight Examiner (CBE).* Blackbag Technologies
- 2012 *Computer Analysis Response Team (CART) Macintosh Authorized Examiner.* Federal Bureau of Investigation (FBI)
- 2012 *Network + (N+).* Computing Technology Industry Association (COMPTIA)
- 2012 *Computer Analysis Response Team (CART) Cell Phone Authorized Examiner.* Federal Bureau of Investigation (FBI)
- 2012 *GIAC Certified Forensic Analyst (GCFA).* Global Information Assurance Certification (GIAC)
- 2012 *AccessData Certified Examiner (ACE) v3.X - Recertification.* AccessData
- 2012 *Computer Analysis Response Team Macintosh Basic Certified Examiner.* Federal Bureau of Investigation (FBI)
- 2012 *Computer Analysis Response Team Linux Command Line Authorized.* Federal Bureau of Investigation (FBI)
- 2011 *Certified Computer Forensic Examiner (CFCE).* International Association of Computer Investigative Specialists (IACIS)
- 2011 *Computer Analysis Response Team (CART) Windows Intel Architecture (WINTTEL) Certified Examiner.* Federal Bureau of Investigation (FBI)
- 2010 *A+.* Computing Technology Industry Association (COMPTIA)

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- 2010 *AccessData Certified Examiner (ACE) v3.X*. AccessData
- 2008 *Certified Electronic Evidence Collection Specialist (CEECS)*. International Association of Computer Investigative Specialists (IACIS)
- 2008 *AccessData Certified Examiner (ACE) v1.X*. AccessData
- 2005 *Certified Cell Phone Examiner*. Paraben
- 2005 *Certified PDA Examiner*. Paraben
- 2005 *Certified Computer Examiner (CCE)*. International Society of Forensic Computer Examiner
10/2005 – 10/2007
- 2005 *Professional Development Series Certificate*. Federal Emergency Management Institute

PROFESSIONAL TRAINING

(Course Title, Provider, Number of Days)

- Oct 2018 *Moot Court - Proctor*. Federal Bureau of Investigation (5)
- Oct 2018 *macOS Technical Refresher Self-Paced - Technical Reviewer*. Federal Bureau of Investigation
- Oct 2018 *Mobile Device Refresher Self-Paced - Technical Reviewer*. Federal Bureau of Investigation
- Sep 2018 *iZotope for Forensic Audio Analyst*. Federal Bureau of Investigation (2)
- Sep 2018 *Introduction to Forensic Audio Analyst*. Federal Bureau of Investigation (2)
- Aug 2018 *SQLite Forensics*. Teel Tech (3)
- Aug 2018 *FBI Audio/Video Tools*. Federal Bureau of Investigation (1)
- Aug 2018 *Video Focus for Forensic Audio and Video Analyst*. Federal Bureau of Investigation (2)
- Jul 2018 *FFMPEG for Forensic Video Analyst*. Federal Bureau of Investigation (2)
- Jul 2018 *Adobe Premier for Forensic Video Analyst*. Federal Bureau of Investigation (3)
- Jun 2018 *Adobe Photoshop for Forensic Video Analyst*. Federal Bureau of Investigation (4)
- Jun 2018 *Introduction to Forensic Video Analyst*. Federal Bureau of Investigation (1)

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Sep 2016 *Digital Evidence Policy Guide Training Self-Paced*. Federal Bureau of Investigation

Sep 2016 *JTAG/ISP Examiner Certification Training*. Federal Bureau of Investigation (5)

Apr 2016 *BlackLight Tool Training*. Blackbag Technologies (2)

Apr 2016 *Cellebrite Advanced Smartphone Analysis (CASA)*. Cellebrite (3)

Oct 2015 *Instructional Strategies Course (ISC)*. Federal Bureau of Investigation (5)

Jun 2015 *Android Self-Paced Training*. Federal Bureau of Investigation

Mar 2015 *BlackLight Tool Training*. Blackbag Technologies (2)

Jan 2015 *Encase Forensic Self-Paced Training*. Federal Bureau of Investigation

Nov 2014 *Presentation Skills Course (PSC)*. Federal Bureau of Investigation (3)

Jul 2014 *BBT-95e "BlackLight Tutorial" Self-Paced Training*. BlackBag Technologies

May 2014 *X-Ways Forensic Self-Paced Training*. Federal Bureau of Investigation

Feb 2014 *GPS/Cell Phone Self-Paced Training*. Federal Bureau of Investigation

Apr 2013 *Senior Moot Court*. Federal Bureau of Investigation (5)

Jan 2013 *Apple Care Technician Self-Paced Training*. Apple

Dec 2012 *Sumuri Macintosh Forensic Survival Course*. Sumuri, LLC. (5)

Sep 2012 *Cellebrite UFED Python Training*. Cellebrite (2)

Aug 2012 *Digital Evidence Evolution Workshop*. Federal Bureau of Investigation (3)

Aug 2012 *Timeline Self-Paced Training*. Federal Bureau of Investigation

May 2012 *Cell Phone / GPS Training*. Federal Bureau of Investigation (4)

Apr 2012 *SANS FOR508: Advanced Computer Forensic Analysis and Incident Response*. The SANS Institute (6)

Feb 2012 *CART Moot Court - Proctor*. Federal Bureau of Investigation (4)

Jan 2012 *CART Linux Command Line*. Federal Bureau of Investigation (3)

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Dec 2011 *Firewire Target Disk Mode Acquisition Self-Paced Training*). Federal Bureau of Investigation

Oct 2011 *CART TestFest*. Federal Bureau of Investigation (3)

Aug 2011 *X-Ways Forensics*. X-Ways (3)

Jul 2011 *Live Capture Tool Self-Paced Training (HBGARY, F-RESPONSE, FTK LAB, VOLATILITY, PRINCETON COLD BOOT)*. Federal Bureau of Investigation

Jun 2011 *DriveQuest "Train the Trainer"*. Federal Bureau of Investigation (3)

May 2011 *CART Moot Court*. Federal Bureau of Investigation (4)

Mar 2011 *FTK Lab "Train the Trainer"*. AccessData (3)

Jan 2011 *FTK Lab v3.X Self-Paced Training*. Federal Bureau of Investigation

Nov 2010 *Windows Registry*. AccessData (3)

Nov 2010 *Live Capture Self-Paced Training*. Federal Bureau of Investigation

Oct 2010 *CART Practical's*. Federal Bureau of Investigation (5)

Sep 2010 *Encase Examination of NTFS*. Guidance Software (3)

Sep 2010 *CART 101*. Federal Bureau of Investigation (3)

Jun 2010 *Windows Registry*. AccessData (3)

May 2010 *Internet Forensics*. AccessData (3)

Jan 2010 *Windows 7 Forensics*. AccessData (1)

Nov 2009 *MAC Forensics*. AccessData (3)

Sep 2009 *Mobile Forensics 101*. AccessData (3)

Feb 2009 *ImageScan version 3 "Train the Trainer"*. Federal Bureau of Investigations (2)

May 2008 *IACIS Basic Training Conference*. International Association of Computer Investigative Specialists (14)

Mar 2008 *ACE Preparation*. AccessData (1)

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Feb 2008 *Applied Decryption*. AccessData (3)

Feb 2008 *Internet Forensics*. AccessData (3)

Jan 2008 *Windows Forensics*. AccessData (3)

Jan 2008 *Bootcamp*. AccessData (3)

Dec 2007 *Forensic Fundamentals*. AccessData (3)

Jun 2007 *Windows Forensics*. AccessData (3)

Jun 2007 *Bootcamp*. AccessData (3)

May 2007 *Encase Computer Forensics I*. Guidance Software (4)

Nov 2006 *Bootcamp*. AccessData (3)

Oct 2006 *HTCIA International Training Conference*. High Technology Crime Investigators Association

Oct 2006 *Forensic Fundamentals*. AccessData (3)

Aug 2006 *ImageScan System v2.1*. Federal Bureau of Investigation (1)

Jul 2006 *Internet Forensics*. AccessData (3)

Mar 2006 *Critical Infrastructure Protection Conference*. Michigan State Police

Oct 2005 *2005 Summit "The Forecast" Michigan Prepared Conference*. Michigan State Police

Oct 2005 *PDA Seizure*. Paraben (3)

Oct 2005 *Cell Phone Forensics*. Paraben (3)

June 2005 *Windows Forensics*. AccessData (3)

Mar 2005 *Bootcamp*. AccessData (3)

Aug 2003 *School of Computer Forensics*. Center for Regional and National Security (30)

Jun 2003 *Using Linux as a Forensics Computing Platform*. Center for Regional and National Security (5)

Mar 2003 *School of Computer Cyber Crime*. Center for Regional and National Security (30)

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EDUCATION

Master of Science, Digital Forensic Science, Champlain College, Burlington, VT.
May 2015

Bachelor of Science, Eastern Michigan University, Ypsilanti, MI.
Information Assurance, Network Administration, Information Technology Management

ORGANIZATIONS

2012-Present Member, Digital Forensic, Incident-Response (DFIR) The SANS Institute

2009-2010 Content Advisory Board, *Federal Bureau of Investigation*: ImageScan training program.

2008-2010 Advisory Board Member, Warren Consolidated Schools Career Preparation Center,
Network Administration Program

2007-Present Member, International Association of Computer Investigative Specialists (IACIS)

2006-Present Member, High Tech Crime Consortium (HTCC)

2006-2011 Member, High Technology Crime Investigation Association (HTCIA);
Educational Director, Michigan Chapter, 2007 & 2008

2005-2010 Member-Infragard

2003-Present Member, International Society of Forensic Computer Examiners (ISFCE)